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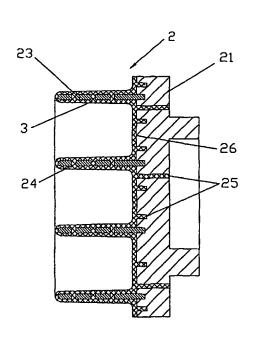
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(54) Title: SCROLL PLATE AND MANUFACTURE METHOD THEREOF

(54) 发明名称: 涡旋盘及其制造方法



(57) Abstract: A scroll plate comprises a orbiting scroll plate and a fixed scroll plate consisted of plate bodies and corresponding end plates; one of the orbiting scroll plate and the fixed scroll plate is made of metal materials, the other is made of nonmetal materials with elasticity and plasticity property, the two scroll plates are sealed and compensated each other in axial and radial direction during orbiting cooperatively by making use of characteristic of materials. In order to convert the original linearly contact of the two scroll plates into surface contact, a scroll plate according to the invention is made of elastic and plastic materials, thus, scaling is achieved by extrusion through materials distortion. At the same time, the two scroll plates are made by modeling so that mechanism process and surface stiffen process are omitted, and the rigidity of oxidation film formed in the surface of workpiece is increased. Additionally, because the two scroll plates are made of soft and hard materials respectively, the requests of precision and contour tolerance in scroll plates are reduced during orbiting cooperatively, accordingly reducing manufacture costs, noises and vibration, also making performance of anti-abrade better and prolonging life of use.

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